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[REDACTED] DRAFT - RSQ:aem (5 Feby 59)
Approved For Release 2002/10/21 : CIA-RDP33-02415A000100100022-4

MEMORANDUM FOR: Director PIC

SUBJECT : Use of CHALICE Photography for Geodetic Control Purposes

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REFERENCE : [REDACTED] subject as above, dated 27 January 1959

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1. On 4 February 59 [REDACTED] your office and representatives of Project Headquarters met to discuss ~~several items of particular interest to Project Headquarters as concerns~~ *dropping the portion* ~~divesting~~ CIA/PIC of the camera calibration program and turning this function over to ACIC. Following is a summary of agreements and decisions reached during the course of this meeting:

a. Requirement for focal length calibration of CHALICE cameras.

(1) Cameras presently in use at overseas detachments: Stellar exposures required to calibrate Project CHALICE cameras at the overseas detachments are presently being accomplished by Hycon Special Equipment Section technicians to specifications established by CIA/PIC. However, even after calibration of presently assigned cameras has been completed, a continuing requirement will exist to re-accomplish stellar exposures each time a camera is disassembled so as to change calibration geometry. The cost of accomplishing stellar exposures needed to calibrate detachment cameras has to date been absorbed by Project CHALICE as part of normal detachment operating cost. Since this function can be handled at the detachment with minimum expenditure of labor, it was decided that the cost of future calibration functions of this type at the detachment will continue to be borne by CHALICE.

(2) Cameras previously used on penetration missions: Many of the early CHALICE missions covering areas of particular significance as concerns geodetic controls were accomplished with the A-2 camera using the HR-731 lens assembly. These lenses were subsequently replaced by an improved version. However, the HR-731 lenses and focus posts of cameras used on the earlier missions were intentionally retained, intact, at Hycon (Pasadena, California). By re-assembling the HR-731 lenses and focus posts on a master cone and magazine assembly, it will be possible to recover interior orientation of the 731 series cameras and, therefore, re-establish geodetic control on missions which utilized the 731 lens. Since ACIC has primary interest in data resulting from reconstructing the 731 assemblies, it is felt that they should bear the expense of this item. This matter will be further discussed in the paragraph headed "Funding" below.

b. Funding:

(1) It appears that the largest single item of continuing expense will be the cost of reconstructing dismantled 731 lenses and focus posts at Hycon. In view of ACIC's proposal to underwrite this expense, recommend that they be requested to do so. I believe that the funding of this particular function should be borne by ACIC regardless of whether it is considered "acceleration" or as a continuation of the work undertaken at Project CHALICE expense. [] PIC has volunteered to contact Hycon [] to obtain cost figures for this item. As soon as cost

estimates are available, CIA/PIC will arrange for ACIC to

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discuss the amounts of money involved and the means of accomplishing necessary transfer of funds, etc. Project Headquarters Contracting Division may be contacted if assistance is needed in effecting this transfer of funds from the Air Force to Hycon.

c. Security:

(1) It is understood that it will be necessary to provide geographical coordinates of overseas detachment locations in order to properly identify stars on stellar negatives. As long as information of this type is confined to the three ACIC individuals currently possessing CHALICE clearances, the Project Headquarters Security office poses no objection.

2. I am in general agreement with the remainder of the plan by which you propose to divest CIA/PIC of the bulk of the camera calibration program. I would add that if the Air Force is not willing to assume the expense of further calibration operations at Hycon that the entire camera calibration program should be re-examined. I have requested to serve as the Project "focal point" to provide any additional assistance PIC may require in this matter.

W. B.